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Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/W.No.12/RS/CEMENT/2013-14 Date: 29.07.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. R. Shivaram,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing cement concrete roads at Kammagondanahalli Area in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/DD/WO/79/2013-14 Dated: 27.07.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	Standard Consistency	IS-4031 (Part -4)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	195 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	470 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

AE W-12

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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Bangalore-560079.

Job No.: CTCE/BBMP/W.No.12/RS/SAND/2013-14 : 29.07.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Mr. R. Shivaram,** Contractor, Bangalore.

Name of Work : Providing cement concrete roads at Kammagondanahalli Area in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/79/2013-14 Dated: 27.07.2013

Date of Testing : 29.07.2013

Material : Sand

Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	91	4.55	4.55	95.5	90-100
2.36	238	11.90	16.45	83.6	75-100
1.18	495	24.75	41.20	58.8	55-90
600 Micron	432	21.60	62.80	37.2	35-59
300 Micron	502	25.10	87.90	12.1	8-30
150 Micron	186	9.30	97.20	2.8	0-10

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Job No.: CTCE/BBMP/W.No.12/RS/SAND/2013-14 : 30.07.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Mr. R. Shivaram,** Contractor, Bangalore.

Name of Work : Providing cement concrete roads at Kammagondanahalli Area in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/79/2013-14 Dated: 27.07.2013

Date of Testing : 30.07.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	85	4.25	4.25	95.8	90-100
2.36	232	11.60	15.85	84.2	75-100
1.18	486	24.30	40.15	59.9	55-90
600 Micron	428	21.40	61.55	38.5	35-59
300 Micron	496	24.80	86.35	13.7	8-30
150 Micron	195	9.75	96.10	3.9	0-10

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e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

Job No.: CTCE/BBMP/W.No.12/RS/CEMENT/2013-14

Date: 30.07.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. R. Shivaram,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing cement concrete roads at Kammagondanahalli Area in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/DD/WO/79/2013-14 Dated: 27.07.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	Standard Consistency	IS-4031 (Part -4)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	465 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.12/RS/AGG/2013-14 : 29.07.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Mr. R. Shivaram,** Contractor, Bangalore.

Name of Work : Providing cement concrete roads at Kammagondanahalli Area in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/79/2013-14 Dated: 27.07.2013

Date of Testing : 29.07.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25400**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	982	3.87	3.87	96.13	95-100
20	16325	64.27	68.14	31.86	30-70
10	5148	20.27	88.41	11.59	10-35
4.75	2316	9.12	97.52	2.48	0-5

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IS 383-1970 (RA- 2002)

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Reference : EE/DD/WO/79/2013-14 Dated: 27.07.2013

Date of Testing : 30.07.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25400**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	956	3.76	3.76	96.24	95-100
20	16235	63.92	67.68	32.32	30-70
10	5213	20.52	88.20	11.80	10-35
4.75	2361	9.30	97.50	2.50	0-5

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Job No.: CTCE/BBMP/W.No.12/RS/CUBE/2013-14

06.08.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. R. Shivaram,** Contractor, Bangalore.
Name of the work	: Providing cement concrete roads at Kammagondanahalli Area in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: EE/DD/WO/79/2013-14 Dated: 27.07.2013
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2004)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2013	06.08.2013	8.196	376.4	16.73
2	30.07.2013	06.08.2013	8.155	350.5	15.58
3	30.07.2013	06.08.2013	8.178	365.4	16.24

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Reference	: EE/DD/WO/79/2013-14 Dated: 27.07.2013
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2004)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2013	27.08.2013	8.238	498.4	22.15
2	30.07.2013	27.08.2013	8.219	489.6	21.76
3	30.07.2013	27.08.2013	8.185	475.6	21.14

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Reference	: EE/DD/WO/79/2013-14 Dated: 27.07.2013
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2004)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2013	06.08.2013	8.146	367.5	16.33
2	30.07.2013	06.08.2013	8.213	374.3	16.64
3	30.07.2013	06.08.2013	7.958	355.9	15.82

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Reference	: EE/DD/WO/79/2013-14 Dated: 27.07.2013
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2004)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2013	27.08.2013	8.310	508.7	22.61
2	30.07.2013	27.08.2013	8.254	485.2	21.56
3	30.07.2013	27.08.2013	8.286	496.3	22.06

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Reference	: EE/DD/WO/79/2013-14 Dated: 27.07.2013
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2004)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.07.2013	07.08.2013	8.190	380.5	16.91
2	31.07.2013	07.08.2013	8.171	363.2	16.14
3	31.07.2013	07.08.2013	8.264	390.4	17.35

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Job No.: CTCE/BBMP/W.No.12/RS/CUBE/2013-14

28.08.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. R. Shivaram,** Contractor, Bangalore.
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2004)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.07.2013	28.08.2013	8.251	483.5	21.49
2	31.07.2013	28.08.2013	8.302	507.4	22.55
3	31.07.2013	28.08.2013	8.278	496.8	22.08

Note:

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

M/s. Civil-Tech Consultants & Engineers
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Bangalore-560079.

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/W.No.12/RS/CUBE/2013-14

07.08.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. R. Shivaram,** Contractor, Bangalore.
Name of the work	: Providing cement concrete roads at Kammagondanahalli Area in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: EE/DD/WO/79/2013-14 Dated: 27.07.2013
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2004)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.07.2013	07.08.2013	8.173	381.5	16.96
2	31.07.2013	07.08.2013	7.996	350.7	15.59
3	31.07.2013	07.08.2013	8.138	364.8	16.21

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28.08.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
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Technical Reference	: IS: 516-1959 (Reaffirmed 2004)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.07.2013	28.08.2013	8.228	501.8	22.30
2	31.07.2013	28.08.2013	8.201	492.7	21.90
3	31.07.2013	28.08.2013	8.185	480.2	21.34

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